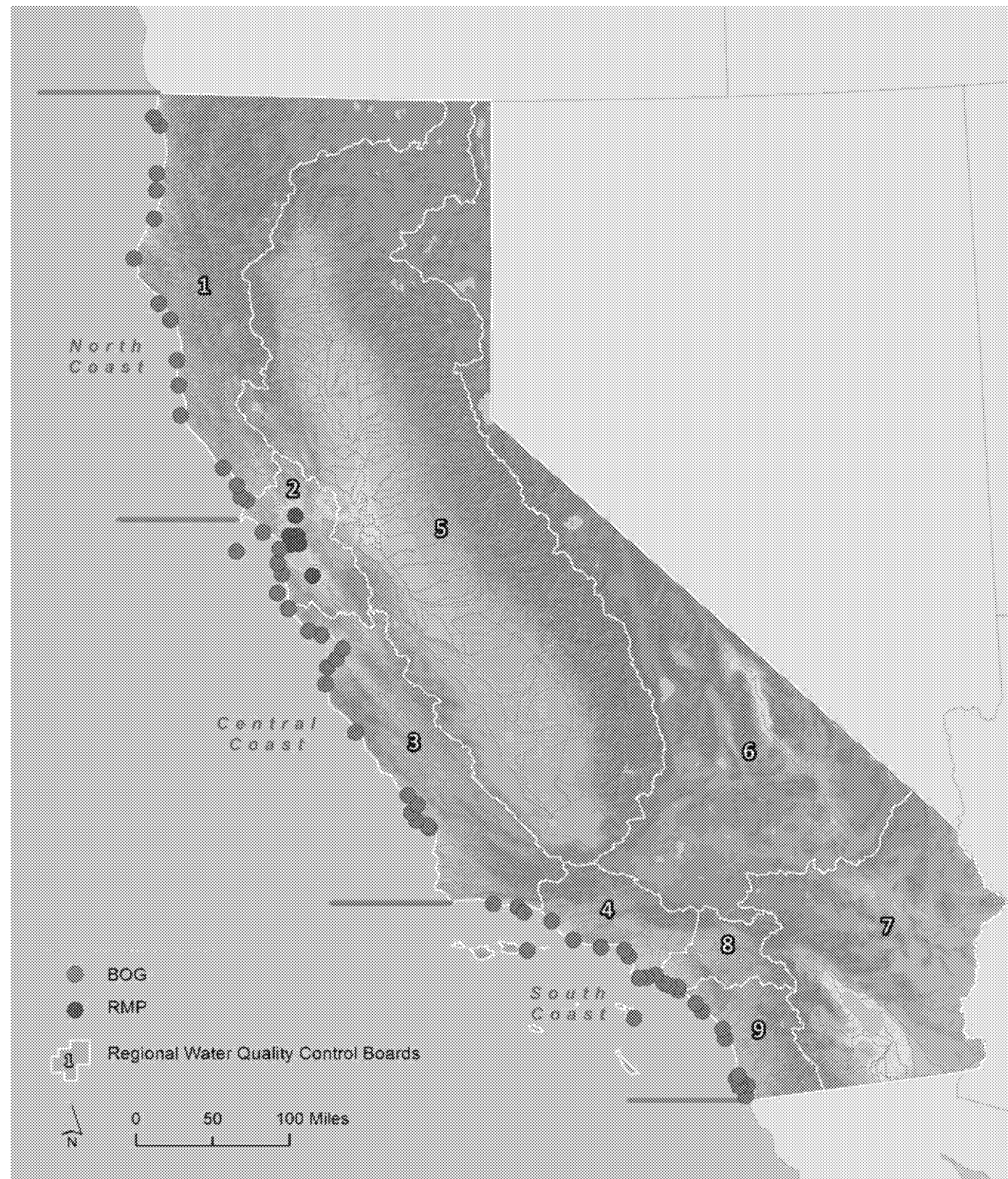


SWAMP Bioaccumulation Monitoring 2018

- **Coastal Waters, Round 2**
- 10-year cycle
- 2018: SoCal Bight
- 2019: SF Bay
- 2020: Central and North Coasts
- **Collaboration**



Catch for the 2018 Bight Sampling

Zone #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28/29	30
Station Code	91001TJN	91202SDS	91203SDN	90804PLMA	90805PLLJ	90606MSS	90407LJSO	H	C	90110DANA	80111CGSA	T	80113SASB	O	40515LNGB	41116SPDB	40817CATI	40418PVER	B	B	B	40422PTDU	31623NCHI	40124VTRC	A	31528SBCP	31527GPIC	31028NSBC	31030PTSL
Zone Name	TJ to North Island	SD South Bay	SD North Bay	Pt Loma	Pt Loma to La Jolla	Mission Bay	La Jolla to San Onofre	Oceanside Harbor	San Onofre to Crystal Cove	Dana Point Harbor	Crystal Cove to Santa Ana River	Newport Bay	Santa Ana River to Seal Beach	Orange County Oil Platforms	Long Beach	San Pedro Bay	Catalina Island	Palos Verdes	South Santa Monica Bay	Middle Santa Monica Bay	North Santa Monica Bay	Pt Dume to Oxnard	Northern Channel Islands	Ventura to Rincon	Rincon to Goleta	Santa Barbara Channel Oil Platform	Goleta to Pt Conception	Barbara County Coast/Plismo Beach Area	Port San Luis Area
Kelp Bass			17	21	8	3	14		15		10		19	20	11	1	18	17	19	19	15	19	15		20	5			10
Chive Rockfish			1	23					9				5		18	25				11				15	2				
White Croaker	7												10							2				3	24				
Banded Surfperch	9		21	14	21	2	17		15	5	16		15	16	15	20		1	19	19	19	15	15	15					
Banded Sand Bass	17		4	6	2	1	8	10	5	5	4		8	2	2	6		1	5	3	2	4		1	3				
Spotted Sand Bass		18	17	2	19	5	12		4			12	8																
Spotted Scorpionfish	8			13	4								1			2													
Walleye Surfperch				2			12	1																15					
Yellowfin Croaker		1	1			15	8	10		3		9	2		1				10	20	1			14					
Shiner Surfperch			22		25		10			22		3				1			7	21									
Leopard Shark	5	2																											
Brown Smoothhound Shark						3																							
Top Smelt						2																							
Jack Smelt				5		8	9															5			5				20
Black Rockfish																													2
Blue Rockfish																													15
Lingcod																													
California Halibut	1	1					7	3							1	10					1								8
Brown Rockfish				15	7	7	8	1	1	5	5	23		8				9	1		1	15	10		7				
Black Surfperch																													
Grey Smoothhound Shark																													
Redtail Surfperch																													
Spony Dogfish																													
Cabezon																													
Pacific Barracuda									1																				
Pacific Sanddab																													
Green Spotted Rockfish																													
Gopher Rockfish				7			1											1											17
Kelp Rockfish				13			11											6							11				
Starry Rockfish																													
Vermilion Rockfish				1																									
Tree Rockfish				1							3							1					4						
Pacific Angel Shark															1														
Diamond Turbot							2					4																	
White Surfperch						18		9		5																5			16
Rainbow Surfperch																													1
Horn Shark						1																							
Yellowtail Rockfish																													
Spotfin Croaker							4	15		1		1								2									
Queenfish																													
Sargo						1											1												
Opaleye				1		1			3	1	7	4		6			6	8				10	5						
Silver Surfperch																													
Senoria																													
Blacksmith				2	1																								
Rubberlip Surfperch																													
Copper Rockfish																		1											
California Corbina	3					3		1		2										4	2				5				
Pile Surfperch							2							6							1	5			8				2
Grass Rockfish																									1				
Black and Yellow Rockfish					1	1	1																		1	2			
China Rockfish																													
California Sheephead				15	4		5		6		10			12			5	8	2		2	1	5		9	11			
Black Croaker		1	1			2	1																						
Jack Mackerel					18		12				4																		
Salmon						14																							
Bal ray						1	1																						
Striped surfperch						1																							2
White sea bass																													
California butterfly ray																													
Round sting ray						5	5																						
Striped mullet																													
Zebra perch																													
Bonfish																													
Ocean Whitefish																													

~ 50 species

Additional Sampling: Central Coast

Zone #	39	40	42
Station Code	30939MYPG	30940MLMC	30442SCWB
Zone Name	Monterey/Pacific Grove Coast	Moss Landing/Marina Coast	Santa Cruz Area Wharfs/Beachs
Chinook Salmon		5	
Olive Rockfish	15	2	
White Croaker			
Barred Surfperch			6
Pacific Chub Mackerel			
China Rockfish			
Barred Sand Bass			
Spotted Sand Bass			
Spotted Scorpionfish			
Walleye Surfperch			
Yellowfin Croaker			
Shiner Surfperch			
Leopard Shark			
Brown Smoothhound Shark			
Top Smelt			
Jack Smelt		5	
Black Rockfish			
Blue Rockfish	15	9	
Lingcod	5	7	
California Halibut			
Brown Rockfish		4	
Black Surfperch	6		
Grey Smoothhound Shark			
Redtail Surfperch			
Spiny Dogfish			
Cabezon	7		
Pacific Barracuda			
Pacific Sanddab			
Green Spotted Rockfish			
Gopher Rockfish	8	1	
Kelp Rockfish	11		
Starry Rockfish			
Vermillion Rockfish			
Tree Rockfish			
Pacific Angel Shark			
Diamond Turbot			
White Surfperch			
Rainbow Surfperch			
Yellowtail Rockfish		8	
Spotfin Croaker			
Queenfish			
Silver Surfperch			
Rubberlip Surfperch	2		
Jack Mackerel			
Copper Rockfish	4	2	
Pile Surfperch	9		
Grass Rockfish			
Black and Yellow Rockfish	5	1	
White Sea Bass			
Rosy Rockfish			
Kelp Greenling			
Quillback Rockfish			
Starry Flounder			
Bat Ray			

Timeline for the 2018 Data

Sampling

CDFW – Jakl, Ichikawa, et al.

CDFW – Hagerty

John Wood Group PLC - Chris Stransky

Completed in Nov 2018

Sample Processing

MLML - Bonnema

Completed in Mar 2019

Analysis – Hg & Se

MLML

Completed May 2019

Analysis – Organics

Delta

Completed in May 2019??

Analysis – Organics

Bight Labs

Completed May 2019

BOG Data to SWAMP

*MLML - Completed May
2019*

*Delta - Completed May
2019??*

Bight Data to CEDEN/data.ca. gov (as preliminary?)

SCCWRP

Completed Jun 2019

Timeline for the 2018 Data (continued)

BOG Data to SWAMP

MLML - Completed May 2019
Delta - Completed May 2019??

SWAMP Review and Post to CEDEN/data.ca.gov (as preliminary?)

OIMA
Completed in Jun or Jul??

SFEI Review and Analysis

SFEI
Completed in Aug 2019

SFEI Draft Tables and Figures

SFEI
Completed in Aug 2019

Bight Data to CEDEN/data.ca.gov (as preliminary?)

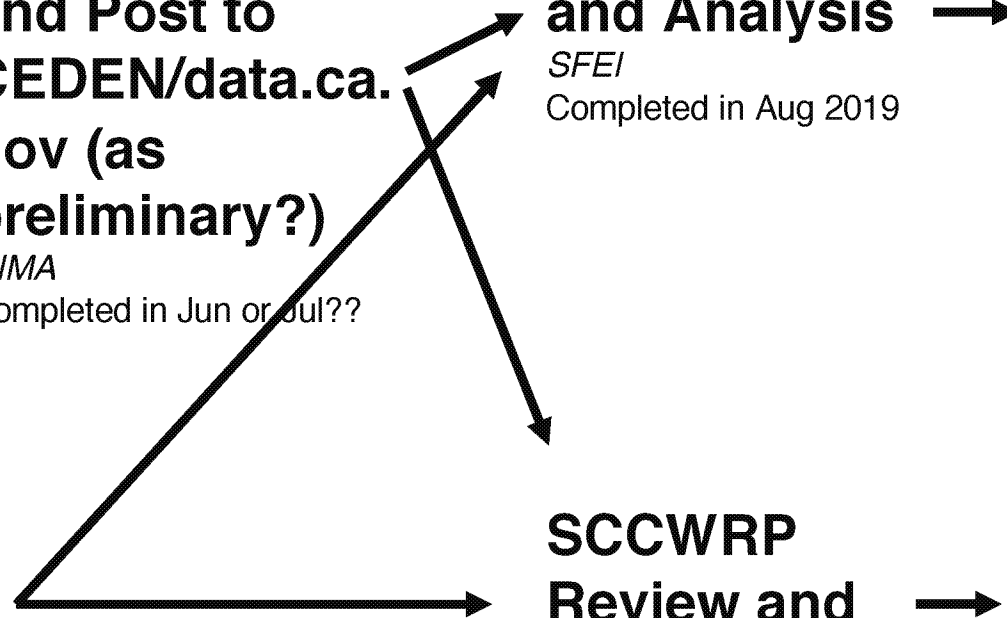
SCCWRP
Completed Jun 2019

SCCWRP Review and Analysis

SCCWRP
Completed in Aug 2019

SCCWRP Draft Report

SCCWRP
Completed in Aug 2019



Timeline for the 2018 Data (continued)

SFEI Draft Tables and Figures

SFEI
Completed in Aug
2019



SFEI Final Tables and Figures and post to Portal

SFEI
Completed in Oct/Nov
2019

SCCWRP Draft Report

SCCWRP
Completed in Aug
2019

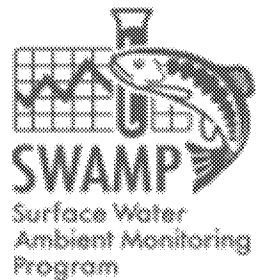


SCCWRP Final Report

SCCWRP
Completed in Oct/Nov
2019

Item 6: Discussion – Sampling Plan for 2019 – Bass Lakes Panel 3

- Desired Outcome: Obtain input on and approval of the sampling plan.



FINAL

Sampling and Analysis Plan for
Long-term Monitoring of Bass Lakes
and Reservoirs in California

The Bioaccumulation Oversight Group (BOG)
Surface Water Ambient Monitoring Program

June 2015

